



- 1 A local restaurant recorded the number of customers who ate at the restaurant each day for a week. The results are shown in the table below.

Restaurant Customers	
Day	Number of Customers
Sunday	140
Monday	95
Tuesday	105
Wednesday	120
Thursday	185
Friday	245
Saturday	245

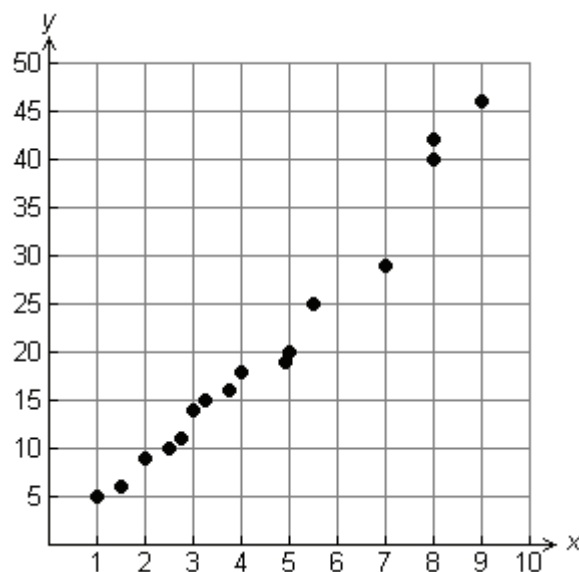
Which measure of data would make the restaurant attendance last week appear to be the best?

- A Mean
- B Median
- C Mode
- D Range

- 2 Three coins are tossed in the air. What is the probability that all three coins will land tails up?

- A $\frac{1}{2}$
- B $\frac{1}{3}$
- C $\frac{1}{6}$
- D $\frac{1}{8}$

- 3 Which best describes the trend in the data shown in the scatterplot below?



- A Positive trend
- B Negative trend
- C No trend
- D Even trend



- 4 The probability of getting a blue gumball from a gumball machine is $\frac{4}{5}$. If there are 432 gumballs in the machine, about how many blue gumballs are in the machine?

A 85
B 290
C 340
D 530

- 5 A radio station is conducting a contest where the winners will receive a set of concert tickets. The probability of winning is $\frac{1}{18}$. If 400 people enter the contest, about how many will be declared winners?

A 400
B 200
C 40
D 20

- 6 A construction company conducted a survey concerning the types of vehicles driven by their employees. The results are shown in the table.

Vehicles

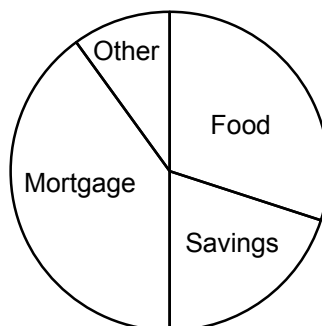
Type	Frequency
SUV	28
Compact	24
Sedan	24
Truck	16
Luxury	4

Which of the following statements is NOT a valid conclusion from this table?

- A The number of trucks and luxury cars is the same as the number of SUVs.
B The number of trucks is 4 times the number of luxury cars.
C The number of compact cars is the same as the number of sedans.
D One-half of the vehicles are either compact cars or sedans.



- 7 The Parker family constructed a circle graph to represent their monthly spending.



Which table identifies the best estimate of the percent of spending represented by each section of the circle graph?

A

Category	Percent of Monthly Spending
Food	30%
Savings	10%
Mortgage	40%
Other	20%

C

Category	Percent of Monthly Spending
Food	108%
Savings	72%
Mortgage	144%
Other	36%

B

Category	Percent of Monthly Spending
Food	30%
Savings	40%
Mortgage	20%
Other	10%

D

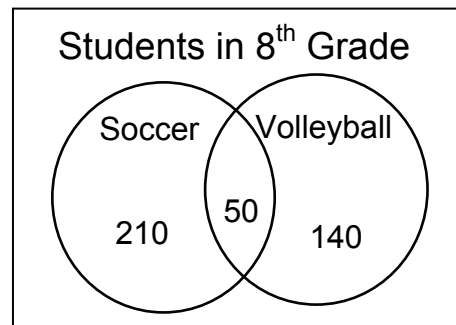
Category	Percent of Monthly Spending
Food	30%
Savings	20%
Mortgage	40%
Other	10%



- 8 Brooke works as a waitress. She received \$60, \$40, \$55, \$35, and \$70 in tips last week. Which measure of data should she use if she wants her earnings from tips to appear the greatest?

A Mean
B Median
C Mode
D Range

- 9 The Venn diagram shows the number of 8th graders who play soccer and/or volleyball at Texas Middle School.



If there are 500 students in the 8th grade, what is the probability that 1 student chosen at random does NOT play either soccer or volleyball?

A $\frac{4}{5}$
B $\frac{7}{10}$
C $\frac{1}{5}$
D $\frac{1}{50}$



- 10 The results of a survey concerning participation in sports are shown in the table.

Sports Participation	
Sport	Number of Students
Baseball	10
Basketball	12
Football	18

Which statement below would be a reasonable prediction if the survey were expanded to include 100 students?

- A The number of students choosing baseball or basketball would equal those choosing football.
- B Thirty percent of those surveyed would choose basketball.
- C Twice as many students would prefer basketball to baseball.
- D Forty students would choose basketball.

- 11 Alex has a jar that contains 3 blue marbles, 2 white marbles, 5 red marbles, and 6 green marbles that are all equal in size and shape. What is the probability of choosing a red marble, not replacing it, then choosing a blue marble?

- A $\frac{15}{256}$
- B $\frac{1}{16}$
- C $\frac{1}{15}$
- D $\frac{1}{2}$